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Cumulative Indexes, January-November, 1953

December, 1953

No. 12

METEOROLOGICAL ABSTRACTS AND BIBLIOGRAPHY

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ADMINISTRATIVE OFFICE: American Meteorological Society, Office of Executive Secretary, 3 Joy Street, Boston 8, Mass.

* Address all business communications, orders and inquiries to the Executive Secretary, Mr. Kenneth C. Spengler, 3 Joy Street, Boston 8, Mass. Exchanges and reprints may be sent direct to P. O. Box 1736, Washington 13, D. C.

METEOROLOGICAL ABSTRACTS AND BIBLIOGRAPHY is a monthly publication devoted to:

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SUBSCRIPTION RATE: \$9.00 per year to members and non members. Single and back issues \$2.00. Back volumes, \$10 per volume.

This publication has been made possible through support and sponsorship extended by the Geophysics Research Directorate of the Air Force Cambridge Research Center, Air Research and Development Command, under Contract No. A. F. 19 (604)-302.

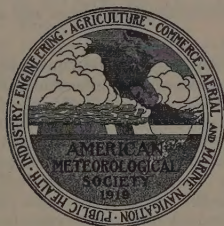
METEOROLOGICAL ABSTRACTS AND BIBLIOGRAPHY

MALCOLM RIGBY, Editor

Vol. 4

DECEMBER, 1953

No. 12



Cumulative Subject and Author Indexes
(Vol. 4, No. 1-11)

(For complete table of contents see back cover)

Published monthly at Prince and Lemon Streets, Lancaster, Pa., by the AMERICAN
METEOROLOGICAL SOCIETY, 3 Joy Street, Boston 8, Mass.

Printed and issued by: Lancaster Press, Inc.

PREFACE

This index contains author, serial, subject and geographical indexes for the 5700 items which were abstracted and arranged in Parts I and II of the January to November issues of Volume 1. Because of limitations as to space and time, the unabstracted items in Part III of the 11 issues were not indexed this year, but most of these will be abstracted by the end of 1954, and hence will appear in the index to Vol. 5.

An attempt has been made to improve the readability of the author index by placing the author's name in **Bold Face** type instead of in the conventional CAPS AND SMALL CAPS which we have used heretofore. The unnecessary verbiage has been eliminated from the title entries to save space and hence cost of printing, and also to provide easier reference. For instance introductory phrases like "On the subject of" or "K voprosu" which do not give any added information on the subject of the article, have been deleted. Long subtitles are also deleted and any curtailment of the title indicated by a series of dots

The order of the indexes has been rearranged to provide a more logical arrangement. The journal or serial index has been placed *immediately after* the author index since it really serves as an author index (if one considers a publication as a *secondary* author). For example one might remember that an article was published in or by the *American Journal of Science*, but not remember the person the author; so he could locate the item by reference to the serial index under the appropriate entry (4.1-223). In the 100 cases where there are ten or more items listed under the same serial (i.e. the *Royal Meteorological Society, Quarterly Journal*, with 141 entries, or the *Germany. Deutscher Wetterdienst* (in U. S. Zone), *Berichte*, with 222 entries, the index merely provides a rough quantitative statistic for evaluating the relative amount of material that is added to the pool of meteorological literature by each of these 100 or more major series, and hence their probable value in a special library which is used by meteorologists.

The **Collected List of Subject Headings** is provided to eliminate elaborate and detailed cross references in the **Subject Index** which follows, since the latter is arranged *alphabetically*, not *systematically*. To find what possible subjects one would look for in the Subject Index one should first consult the general outline of the Collected List (which is arranged according to the U.D.C. system the same as is the material in Current Abstract section of each issue) on page 1551. There refer to the more detailed lists which occur in the same relative order as the aforementioned. Under these major headings will be found numerous headings relative to a given subject.

The language statistics have not changed much from year to year. In 1953, 3563 items or 62% of the material was in English, 1066 or 18% in German, 308 or 5.4% Russian, 303 or 5.3% French, 179 or 3.1% Japanese and 1% or less in Spanish (68), Polish (64), Italian (56), Dutch (35), Hungarian (22), Croatian (20), Norwegian (13), Swedish (12), Hebrew (9), Serbian (9), Portuguese (8), Bulgarian (5), Chinese (5), Finnish (5), Greek (5), Afrikaans (4), Czech (3), Turkish (2), Catalan (2), Danish (1), Esperanto (1), Lettish (1), Slovak (1), and Slovenian (1); a total of 29 languages.

A breakdown by countries shows that the material was published in 73 countries. Of course these statistics do not represent absolute or even relative productivity in the separate countries, merely the amount of material received and abstracted by MAB and published in the 11 issues indexed hereinafter. The 25 leading countries were: USA 1629 (28%), U.K. 977 (17%), Germany 902 (16%), Japan 331 (6%), U.S.S.R. 317 (5%), Australia 209 (4%), France 195 (3%), New Zealand 113 (2%), Austria 108 (1.9%), Sweden 92, Italy 88, Canada 86, India 78, Switzerland 69, Norway 69, Poland 67, Netherlands 44, S. Africa 38, Yugoslavia 31, Hungary 22, Belgium 19, Finland 19, Israel 17 and Argentina 16.

We wish to express our appreciation to those who have advised us of errors in spelling of author names or in titles, references, etc., the most important of which are listed on the following pages. We are especially grateful to Dr. F. Loewe of Melbourne Univ. in Australia who has carefully combed each issue of this volume and sent us by air mail each month a list of a dozen or more errors, as well as to Dr. C. E. P. Brooks of Harrow, Middlesex, England, who has detected hundreds of errors in pro-

MALCOLM RIGBY

ERRATA—VOLUME 4, 1953

Note: In the following list only important errors are included. Discrepancies in style, punctuation, accents, capitalization, transliteration, subject headings, etc., are *not* as a rule listed; nor are errors in the indexes of each issue where these errors are corrected in this volume index. Errors of fact which have come to our attention, mistakes in spelling of the names of authors (where there is no alternative spelling); and errors in title, journal entries or pagination are included. Other errors which may have been overlooked should be called to our attention (by post card addressed to: Meteorological Abstracts, Box 1736, Washington 13, D. C.).

1. p. 16, item 4.1-67, line 1: change Strengwintern to Strengwinter
 p. 29, item 4.1-125, line 3: add Studia between Torun and Ser. A
 p. 57, item 4.1-257, line 2: change 3(5) to 111(5)
 p. 67, item 4A-19, line 1: change Solbert to Solberg
 p. 68, item 4A-27, line 1-2: change Afdeeling Naturkunde, Eerste Sectie to Afdeeling voor de Wis- en Natuurkundige Witsenschappen, Section I
 p. 80, item 4A-100, line 2: add Pure and between on and Applied
2. p. 130, item 4.2-34, line 8: change Schindlehauer to Schindelhauer
 p. 138, item 4.2-75, line 1: change Petit to Pettit
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 p. 164, item 4.2-195, line 2: change Biuelgarska to B'lgarska
 p. 176, item 4.2-251, line 1: change Karapipieris to Karapiperis
 p. 189, item 4B-6, line 1: change Rudski to Rudzki
 p. 203, item 4B-90, line 2: change Geography to Oceanography
 p. 204, item 4B-95, line 1: change Fritzch to Fritzsche
 p. 206, item 4B-104, line 1: change Stout, V. B. to M. B.
 p. 206, item 4B-109, line 2: change in to im
 p. 211, item 4B-139, line 3: change förstliche to forstliche
 p. 237, item 4B-280, line 2: change Contract AF to Contract At
3. p. 275, item 4.3-7, line 7: change regime to region
 p. 287, item 4.3-61, line 1: change Coronity to Coroniti
 p. 310, item 4.3-170, line 1: change Entstehung to Entstehung
 p. 311, item 4.3-177, line 1: change "trade" to "Passat"
 p. 315, item 4.3-194, line 2: change radial to jet
 p. 315, item 4.3-197, line 1: change Indian to Indien
 p. 320, item 4.3-218, line 1: add Studia between Torun and Sec. A
 p. 320, item 4.3-220, line 3: add Studia between Torun and Sec. A
 p. 335, item 4.3-290, line 1: change Takesi, Nagata to Nagata, Takesi
 p. 345, item 4C-24, line 1: change Nordeutschland to Norddeutschland
 p. 361, item 4C-141, line 1: change Früfrost to Frühfrost
 p. 367, item 4C-175, line 1: change Reingau to Rheingau
 p. 367, item 4C-175, line 2: change Rhine region to Rheingau
 p. 369, item 4C-189, line 1: change Dieckman to Dieckmann
 p. 369, item 4C-189, line 4: change Donemeschingen to Donaueschingen
 p. 382, item 4C-268, line 7: change Wechsler to Wexler
 p. 386, item 4C-294, line 1: change Strahungsnebeln to Strahlungsnebeln
 p. 388, item 4C-307, line 2: add de between Revista and Geofisica
 p. 393, item 4C-336, line 1: change Frostschutz to Frostschutz
4. p. 449, item 4.4-128, line 2: change 995 (2997) to 115 (2997)
 p. 489, item 4D-41, line 1: change 551.586:62 to 551.586:637
 p. 496, item 4D-91, line 3: change March 1939 to March 1929
 p. 523, item 4D-253, line 2: change 39-38 to 39-48
 p. 510, item 4D-175, line 2: change Hokita to Hokitika
5. p. 565, item 4.5-38, line 7: change Goths to Gotha
 p. 568, item 4.5-54, line 1: change Meteorografflygmingar to Meteorografflygningar
 p. 572, item 4.5-72, line 1: change ihrer to ihre
 p. 586, item 4.5-135, line 1: change Wingschwindigkeit to Windgeschwindigkeit
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 p. 591, item 4.5-158, line 1: change compagne to campagne
 p. 623, item 4E-48, line 2: add By A. Wagner after Atmosphäre
 p. 623, item 4E-48, line 3: delete A. Wagner after Berlin
 p. 626, item 4E-70, line 1: change Huber to Hubert
 p. 638, item 4E-155, line 3: change 1948 to 1916
 p. 642, item 4E-185, line 2: change Geofisico to Geofisica

- p. 644, item 4E-197, line 5: change 2.5-28 to 2.5-27
 p. 652, item 4E-247, line 2: change 1952 to 1951
 p. 652, item 4E-252, line 6: change Arctic to North Atlantic
- No. 6. p. 677, item 4.6-3, line 1: change 1951 to 1950
 p. 679, item 4.6-9, line 8: sentence Mean sea level . . . should read: World mean sea level pressure maps are constructed making use of the old edition of the "Normal Weather Maps, Northern Hemisphere (U. S. Weather Bureau, 1946) and data from several new sources for the area south of 10°N".
 p. 687, item 4.6-43, line 1: change Fesselballonmethod to Fesselballonmethode
 p. 691, item, 4.6-63, line 2: change Zurgbahnen to Zugbahnen
 p. 698, item 4.6-94, line 1: change fluide to fluido
 p. 739, item 4F-34, line 1: change allegemeinen to allgemeinen
 p. 749, item 4F-98, line 9: change Lerwick, England to Lerwick, Scotland
- No. 7. p. 789, item 4.7-74, line 1 and 2: change 1952 to 1925
 p. 798, item 4.7-118, line 1: change Sonntag, G. to Sonntag, D.
 p. 808, item 4.7-169, line 1: change Bielfeld to Bielefeld
 p. 812, item 4.7-186, line 5: change Canada to Alaska
 p. 813, item 4.7-191, line 1: change Wetzlar, Arzt to Arzt, Th.
 p. 835, item 4G-78, line 3: change free striated to jet
 p. 843, item 4G-126, line 1: change par to pour
- No. 8. p. 866, item 4.8-12, line 4: change L. Kaplan to J. Kaplan
 p. 891, item 4.8-119, line 10: change 2.09 + 3% to 2.09 ± 3%
 p. 893, item 4.8-131, line 1: change Bodenoberfläche to Bodenoberfläche
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 p. 918, item 4.8-260, line 1: change Sonnenflecken to Sonnenflecken
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 p. 942, item 4H-84, line 1: change Rusch, Harold F. to Harold P.
 p. 942, item 4H-88, line 1: change Quartzlampenbestrahlung to Quarzlampenbestrahlung
 p. 952, item 4H-139, line 1: change biologischen to biologisch; Komponente to Komponenten
- No. 9. p. 990, item 4.9-39, line 4: change 1941 to 1951
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 p. 1009, item 4.9-129, line 1: add Fritz after Krüger
 p. 1030, item 4.9-234, line 5: change Woldset to Wildsee; Amhorspitze to Amthorspitze
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 p. 1081, item 4I-274, line 4: change Dwajalein to Kwajalein
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- No. 10. p. 1106, item 4.10-6, line 2: change 1949 to 1948
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 p. 1132, item 4.10-127, line 2: change Ostpressen to Ostpreussen
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 p. 1158, item 4.10-254, line 2: change ouranour to ouranoü
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 p. 1249, item 4.11-48, line 1: change Wittenstein to Witterstein
- No. 11. p. 1266, item 4.11-130, line 1: change Fronton to Fronten
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 p. 1276, item 4.11-175, line 2: change Gydrologiczny to Hydrologiczny
 p. 1299, item 4.11-274, line 3: change "bruch" to brush
 p. 1312, item 4K-19, line 1: change Khäler to Kähler
 p. 1312, item 4K-22, line 1: change Staye to Stoye
 p. 1320 item 4K-66, line 1: change Schindelbauer, E. to Schindelbauer, F.
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 p. 1349, item 4K-244, line 1: change Zetroner to Zetrouer
 p. 1361, line 25: change Ser. B to Ser. A

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Authors and titles mentioned in the *body of an abstract* have also been indexed. References to authors and titles found in Part III (Contents of Journals), indexed in years heretofore, are omitted in this 1953 index, to save space and time. Most of these articles will appear as abstracts in the 1954 issues and be included in the 1954 index.

Authors whose names begin with an article or preposition (van, de, di, etc.) are generally indexed under that article or preposition. Cross references indicate variations from that practice, or possible alternate entries.

Long titles have been shortened where possible, with due respect for clarity and identification, eliminating initial articles and unimportant prepositions, and usually cutting off the end of the title.

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| Geochemistry | Geophysical observatories | Magnetic influences |
| | Geophysical tables | |

Magnetic observations
Magnetic observatories
Magnetic storms
Microseismic storm detection

Microseisms
Seismic stations
Seismic storm detection
Terrestrial electricity

Terrestrial magnetism
Terrestrial radiation
Vienna-Auhof Observatory

Geomorphology, Ice and Volcanism, 551.1-551.3

Anchor ice
Antarctic sea ice
Arctic sea ice
Erosion
Frazil ice
Freezing soil effects
Glacial ablation
Glacial action
Glacial runoff
Glacial winds
Glaciation
Glacier formation
Glacier variations
Glaciers
Hekla eruption—1947
High altitude observatories

Ice
Ice cover duration
Ice damage
Ice explosions
Ice fields
Ice formation
Ice Information File (Canada)
Ice research
Ice surveys
Ice temperatures
Ice thickness measurement
Isotach analysis
Katmai eruption
Krakatoa eruption
Micrometeorology of glaciers
Morphology

Parícutin Volcano
Patterned ground
Polar ice
Polar ice distribution
River ice
River ice structure
Soil erosion
Volcanic dust
Volcanic eruptions
Volcanoes
Vulcanology
Wave erosion
Weathering
Weathering by frost
Weathering of materials
Wind erosion

Physical Geography, 551.41-5

Bogs
Deserts
Mountain and valley breezes
Mountain and valley winds
Mountain climates
Mountain climatology

Mountain effects
Mountain meteorology
Mountain observations
Mountain observatories
Mountain resorts

Orographic effects
Orographic influences
Orographic rainfall
Sand
Sferics from mountains

Oceanography, Hydrography and Hydrology, 551.46-9

Albedo of lakes
Albedo of sea
Albedo of water surfaces
Bottom samples
California Current
Cloudiness at sea
Coastal currents
Cold currents
Current meters
Deep water waves
"E. W. Scripps" expeditions,
1938-1941
El Niño Current
Estuarine hydrography
Evaporation from seas
Gulf Stream effects
Gulf Stream heat transport
Heat balance of lakes
History of hydrography
Hydrographic conferences
Hydrography
Hydrologic bibliographies
Hydrologic data
Hydrologic institutes
Hydrologic literature
Hydrologic maps

Hydrologic networks
Hydrologic services
Hydrology
Lake influences
Lake temperatures
Lakes
Lakes and rivers
Limnology
Marine punched cards
Ocean-atmosphere interaction
Ocean-atmosphere stress
Ocean currents
Ocean floor temperatures
Ocean floors
Ocean temperatures
Ocean water balance
Ocean wave forecasting
Ocean wave measurement
Ocean wave measurements
Ocean waves
Oceanic eddies
Oceanographic bibliographies
Oceanographic consultants
Oceanographic data
Oceanographic expeditions
Oceanographic forecasting

Oceanographic institutes
Oceanographic instruments
Oceanographic observations
Oceanographic research
Oceanographic surveys
Oceanography
Oceans
Optical properties of sea water
Oyashio Current
Peru Current
Precipitation at sea
Pressure effects on sea level
Rainfall at sea
River basins
River forecasting
River gages
River hydrology
River ice
River ice structure
River stages
River temperature influences
Saline nuclei
Salinity
Salt spray
Sea breezes
Sea level changes

Sea level variations	Temperature at sea	Wave mechanics
Sea spray	Upwelling	Wave motion
Sea surface contours	Water balance of seas	Wave propagation
Sea surface temperatures	Water surface	Weather at sea
Sea temperature data	Watersheds	Wind driven currents
Sea temperatures	Wave action	Wind wave forecasting
Shallow water waves	Wave damage	Wind wave propagation
Storms at sea	Wave forecasting	Wind-wave relationships
Stream flow	Wave formation	Wind waves
Swell	Wave heights	Winds at sea

APPLICATIONS

BIOLOGY

Anthropology, Botany and Zoology, 57-59

Acclimatization of plants	Forest vegetation	Microorganisms
Aerobiology	Frogs	Mutation
Aeroplankton	Frost damage to plants	Photosynthesis
Albedo of plants	Germination	Plant climate
Animal climatology	Growing season	Plant climatology
Animal ecology	Guinea pigs	Plant diseases
Animal husbandry	Human ecology	Plant ecology
Animals	Insect ecology	Plant growth
Artificial freezing of plants	Insects	Plant respiration
Biometeorology	Locusts	Pollen
Bird navigation	Lunz Biological Station, Austria	Pollen analysis
Coral atolls	Mice	Tree ring growth
Dendrochronology		Vegetation
Ecology		

MEDICAL SCIENCE AND DISEASES, 600-616

Acclimatization	Dental caries	Insensible perspiration
Air-borne diseases	Dermatitis	"Knott technique"
Anemia	Digestive system	Lens cataract
Antigen-antibody reaction	Dishydrosis	Light penetration into skin
Antirachitic effects	Epidemics	Light sickness
Applied climatology	Erythema	Liver cancer
Applied meteorology	Erythema curve	Lung cancer
Aviation medicine	Erythema dose	Medical climatology
Balneology	Erythema formation	Medical meteorology
Basal metabolism	Erythema latency period	Menstrual cycle
Blood	Erythema threshold	Metabolism
Blood calcium	Eyes	Mortality due to weather
Blood pressure	Far infrared tissue penetration	Mountain sickness
Blood sugar	Frigorimeters	Nerve impulse
Body temperature	Frostbite	Nervous system
Body weight	Germicidal effects	"Nose closing" rays
Breast cancer	Growth	"Nose opening" rays
Cancer immunity	Hay fever	Nutritional effects
Carcinogenesis	Health resorts	Oxygen consumption
Cardiac output	Heart disease	Ozone effects
Chronaxie	Heat loss	Photobiological effects
Circulatory system	Heat tolerance	Photochemical effects
Climatic effects	Hemoglobin count	Photodynamic action
Climatic stress	Histamine content	Photopathology
Climatotherapy	Histamine formation	Photophysiology
Comfort climate	Humidity effects	Photosensitivity
Comfort zones	Industrial climatology	Photosensitization
Common cold	Industrial hygiene	Physiological effects
Cooling effects	Industrial meteorology	Physiological factors in visibility
Cooling power		

Physiological rhythm	Skin diseases	Therapeutic action
Pigmentation	Skin functioning	Tuberculosis
Poliomyelitis	Skin sensitivity	Tumor induction
Public health	Skin temperatures	Tumor induction dose
Pulse rate	Smallpox vaccination	Ultraviolet radiation penetra-
Radiation penetration into skin	Space medicine	tion into skin
Reproductive system	Spectral erythema curve	Ultraviolet sensitivity
Respiration rate	Sultriness	Urine excretion
Respiratory diseases	Sunburn	Urticaria solare
Rheumatism	Sunburn mechanism	Uterus
Seaside resorts	Sunburn protection	Vascular effects
Skin	Sweating	Vegetative nervous system
Skin albedo	Synergistic action	Weather sensitivity
Skin cancer	Temperature sensitivity of	Working capacity
Skin chapping	skin	Wound healing
Skin conditioning		

AGRICULTURE, 630

Acorn viability	Forests	Pigs
Agricultural climatology	Frost damage	Pine forests
Agricultural hydrology	Frost damage to apricots	Plant climate
Agricultural meteorology	Frost damage to citrus or-	Plant diseases
Agricultural meteorology	chards	Plant ecology
bibliographies	Frost damage to cotton plants	Plant forcing
Agriculture	Frost damage to crops	Plant freezing
Agro-climatic regions	Frost damage to flowers	Ponderosa pine
Agro-meteorological services	Frost damage to forests	Potato blight forecasting
Agro-meteorological stations	Frost damage to fruits	Potato storage
Agronomy	Frost damage to grapes	Potatoes
Animal husbandry	Frost damage to orchards	Rice
Apple orchards	Frost damage to plants	Rice culture
Arctic agriculture	Frost damage to root crops	Root crop protection
Cherry trees	Frost damage to sugarcane	Shelter belts
Citrus orchards	Frost damage to tomatoes	Soil chemistry
Coffee	Frost damage to trees	Soil climates
Cranberry bogs	Frost effects on crops	Soil conductivity
Crop moisture content	Frost effects on plants	Soil conservation
Crop storage	Frost effects on soil	Soil drought
Crop yield	Frost fans	Soil erosion
Crop yield forecasting	Frost protection to orchards	Soil influences
Dairying	Frost resistance of plants	Soil moisture sources
Dendrochronology	Frost resistant wheat	Soil porosity
Drainage	Frozen soil types	Soil respiration
Drought resistance	Fruit culture	Soil types
Electrical conductivity of soil	Fruit frost forecasting	Soils
Erosion	Fruit-Frost Service	Sugarcane
Evaporation from soil	Gas exchange soil-atmosphere	Sweet potatoes
Fire danger	Grain crops	Thermal belts
Fire weather	Grazing effects	Tobacco cultivation
Fire weather forecasting	Greenhouse climates	Tree line
Fire weather reports	Growing season	Van't Hoff's law
Forage crops	Horticulture	Vegetation
Forest damage	Irrigation	Vineyards
Forest ecology	Irrigation effects	Viticulture
Forest fires	Killing frosts	Weather damage
Forest limits	Land utilization	Wheat
Forest microclimatology	Nitrogen cycle	Wheat production
Forest nurseries	Nitrous oxide	Wheat yields
Forest soil moisture	Orchard heating	Wind damage to forests
Forest succession	Orchard microclimatology	Wine harvest
Forest vegetation	Orchards	Wool production
Forestry		

ENGINEERING AND RADIO COMMUNICATION, 620-628

- | | | |
|--------------------------------------|--|-------------------------------------|
| Air conditioning | Microwave spectroscopy | Reclamation |
| Applied mechanics | Mining meteorology | Reclamation projects |
| Arctic engineering | Power lines | Reflection echoes |
| Avalanche protection | Radar echoes from auroras | Refraction of electromagnetic waves |
| Canterbury Project | Radar equipment | Sferics wave form photography |
| Cooling towers | Radar transmission forecasting | Short wave radio propagation |
| Corrosion | Radar wave scattering | Short wave radio transmission |
| Cosmic radio frequency radiation | Radio broadcasts | Smoke abatement |
| Degree days | Radio communication | Solar heating |
| Distant recording equipment | Radio direction finders | Solar radio frequency radiation |
| Electrical engineering | Radio echoes | Solar radioelectric storms |
| Electrometers | Radio echoes from auroras | Solar water heaters |
| Engineering meteorology | Radio emanations | Spillway design |
| Flood control | Radio emission spectra | Stack effluents |
| Germanium photocells | Radio equipment | Telemetering systems |
| Heating and ventilating | Radio frequency radiation | Television weather broadcasts |
| Highway engineering | Radio instruments | Temperature control |
| Hydroelectrical engineering | Radio noise bursts | Town planning |
| Icing of cables | Radio observatories | Transmission lines |
| Icing of radiosondes | Radio reception | Tropospheric propagation |
| Icing of transmission lines | Radio recorders | Ultrashort radio waves |
| International Scientific Radio Union | Radio scattering | Ultrashort wave propagation |
| Ionospheric radio wave reflection | Radio transmission | Water resources |
| Irrigation and drainage | Radio transmission ducts | Water supply survey |
| Irrigation canals | Radio wave propagation bibliographies | Weather broadcasting |
| Long wave propagation | Radio wave reflection | Wind generators |
| Marine engineering | Radiophones | Wind power stations |
| Microwave absorption | Radiophysics Laboratory, Sydney, Australia | Windmills |
| Microwave radiation | Radiophysics research | |

AERONAUTICS AND TRANSPORT ENGINEERING, 629

- | | | |
|--|---|----------------------------------|
| Aerial navigation | Aviation terminology | London-South Africa air route |
| Aerial surveying | Bumpiness | Minimum flight patterns |
| Aerodynamics | Ceylon-Western Australia air route | Negative condensation trails |
| Aeronautical climatology | Condensation trails | Northern sea route |
| Aeronautical meteorology | Contact flying weather | Optimum flight patterns |
| Aeronautics | Darwin-Singapore air route | Perth-Colombo air route |
| Air-borne instruments | De-icing of aircraft | Pressure pattern flying |
| Aircraft damage | Eastern Airlines, Inc. | Sailplanes |
| Aircraft landing aids | Exhaust trails | San Francisco-Honolulu air route |
| Airplane observations | Flight plans | Soaring |
| Airplane soundings | Flight procedure | Sydney-Darwin air route |
| Airplane weather reconnaissance | Gliders | Sydney-Singapore air route |
| Airport landing conditions | Gliding | Synoptic aerological studies |
| Airports | High altitude flying | Synoptic aerology |
| Airways climatic data | Ice fog | Tailwinds |
| Airways forecasting | Icing of aircraft | Thunderstorm flights |
| Auckland-Sydney air route | Icing prevention | Trans-Atlantic air navigation |
| Australia-North American International air route | International Civil Aviation Organization | Turbulent wakes |
| Aviation climatology | Interplanetary flights | Upper air flights |
| Aviation medicine | Jet transport flights | Visibility from airplanes |
| Aviation meteorology | Jet transport operation | Washington National Airport |
| | | Weather minima |

COMMERCE, INDUSTRY, INSTRUMENTATION AND BUILDING, 650-699

Automatic computers	Hydrogen generators	Punched card computations
Building construction	Industrial hygiene	Punched card forms
Building materials	Instrument calibration	Radiant heating
Business cycles	Instrument standardization	Road traffic
Climate and building design	Instruments	Sailing directions
Coastal pilots	Insulation	Shipping
Computing machines	Insurance	Shipwrecks
Condensation control	Lightning protection	Slide rules
Condensation effects	Marine disasters	Smoke screens
Cotton cloth	Marine engineering	Snow melting systems
Cotton mills	Marine navigation	Snow removal
Crop storage	Marine punched cards	Textiles
Deterioration of building materials	Meters	Town planning
Disasters	Photographic measurements	Trans-Atlantic air navigation
Electronic computers	Pilot guides	Transmission lines
Fisheries	Public relations	Wind load on structures
Herring fisheries	Punched card analysis	Wind pressure
	Punched card applications	

ART, PHOTOGRAPHY AND LITERATURE, 700 and 800

Aerosol camera	Flight cameras	Photomicrographs
Architecture	Halo photography	Radar photographs
Art	Lightning photographs	Reduction of pairs of auroral plates
Astrophotography	Lightning photography	Sferics wave form photography
Auroral photographs	Meteorological films	Single station photography
Auroral photography networks	Parallactic photography	Stereographic photography
Boys camera	Photographic measurements	Wave photographs
Cloud droplet photography	Photographic recording of electrical discharges	Whole sky photography
Cloud photographs	Photographic sferics recorders	
Cloud photography		
Drop size photography		

HISTORY AND GEOGRAPHY, 902

Expeditions	History of geophysical instruments	History of radio meteorology
Geographical climatology	History of hydrography	History of sferics
Geographical research	History of hydrology	History of ultraviolet radiation research
Geographical terminology	History of lightning research	History of the U. S. Weather Bureau
Geography	History of meteorological services	Maudheim Expedition, 1949-1952
Historic storms	History of meteorological stations	Oceanographic expeditions
Historic weather records	History of meteorology	Physiography
Historical sketches	History of microclimatology	Progress in geography
Historical weather maps	History of observatories	Teaching of geography
History of actinometry		
History of auroral research		
History of climatology		
History of geodesy		

BIOGRAPHY, 92

Biography, Obituaries, Criticism, etc., *see* names of individuals in the CUMULATIVE SUBJECT INDEX, p. 1587.

FORM OF WORK

Abstracting periodicals	Almanacs	Antarctic bibliographies
Abstracts	Amateur observers manuals	Arctic bibliographies
Addresses	Annual meteorological reports	Astrophysical tables
Agricultural meteorology bibliographies	Annual reports	Atlases
	Annual summaries	Atmospheric nomenclature

- | | | |
|------------------------------------|---|---|
| Aurora australis catalogs | History of hydrography | Meteorological terminology |
| Auroral atlases | History of hydrology | Micromeritics bibliographies |
| Auroral bibliographies | History of lightning research | Monthly bulletins |
| Auroral catalogs | History of meteorological services | Monthly climatic charts |
| Aviation terminology | History of meteorological stations | Monthly climatic reports |
| Bibliographies | History of meteorology | Monthly data bulletins |
| Biography | History of microclimatology | Monthly weather reports |
| Climatic atlases | History of observatories | Obituaries |
| Climatological bibliographies | History of radio meteorology | Observation forms |
| Cloud atlases | History of sferics | Observers manuals |
| Code manuals | History of ultraviolet radiation research | Oceanographic bibliographies |
| Collected works | History of the U. S. Weather Bureau | Periodicals |
| Compendium articles | Hydrologic bibliographies | Pilot guides |
| Compendiums | Ice Information File (Canada) | Popular science books |
| Critical reviews | Infrared radiation bibliographies | Publication lists |
| Cumulative indexes | International Cloud Atlas | Punched card forms |
| Definitions | International meteorological bibliographies | Radar bibliographies |
| Dictionaries | IMO. Resolutions | Review articles |
| Elementary textbooks | Italian-English-French-Spanish glossaries | Reviews |
| Encyclopedias | I.U.G.G. Conference Reports | Serial publications |
| Fire weather reports | Jet stream bibliographies | Sferics bibliographies |
| Frost atlases | Juvenile literature | Sferics terminology |
| Frost bibliographies | Killing frost bibliographies | Snow, ice and permafrost bibliographies |
| Frost terminology | Lightning terminology | Soil freezing bibliographies |
| Geographical terminology | Manuals | Temperature reports |
| Geological terminology | Marine atlases | Temperature bibliographies |
| Geophysical abstracts | Meteorological bibliographies | Terminology |
| Geophysical tables | Meteorological glossaries | Textbooks |
| Glossaries | Meteorological monograph series | Thunderstorm bibliographies |
| Hail bibliographies | Meteorological service bulletins | Training manuals |
| Handbooks | | Tropical cyclone bibliographies |
| Historical sketches | | Turbulence bibliographies |
| Historical weather maps | | Ultraviolet absorption bibliographies |
| History of actinometry | | U.D.C. catalogs |
| History of auroral research | | U.D.C. for meteorology |
| History of climatology | | Visibility bibliographies |
| History of geodesy | | Yearbooks |
| History of geophysical instruments | | |

LANGUAGES OF DICTIONARIES, TRANSLATIONS, METEOROLOGICAL ARTICLES, ETC.

- | | | |
|--------------------|--------------------|---------------------|
| Bulgarian language | Dutch language | Lettish language |
| Catalan language | French language | Polish language |
| Chinese language | German language | Portuguese language |
| Croatian language | Hungarian language | Spanish language |
| Czech language | Japanese language | Turkish language |

RESEARCH PROJECTS AND SURVEYS

- | | | |
|-------------------------------|---|-------------------------------|
| Aerological studies | Geological surveys | Microwave propagation studies |
| Aeromagnetic surveys | High altitude research | Microwave research |
| AROWA Project | History of auroral research | Oceanographic research |
| Arid zone research | History of ultraviolet radiation research | Oceanographic surveys |
| Atmospheric pollution studies | Ice research | Operations Research |
| Auroral frequency surveys | Ice surveys | Ozone research |
| Auroral physics research | Lightning research | Pacific science research |
| Auroral research | Meteor research | Precipitation studies |
| Balloon research | Meteorological research | Progress in climatology |
| Canterbury Project | Meteorological research projects | Progress in geography |
| Cosmic ray research | | Progress in meteorology |
| Climatological research | | Progress in sferics recording |
| Geographical research | | Progress in weather control |

Progress reports	Sferics research in Arctic	Stratospheric research
Project Cirrus	Snow and ice research	Thunderstorm research
Radar weather projects	Snow research	Thunderstorm surveys
Radiation research	Snow surveys	Turbulence research
Radiophysics research	Solar research	U. S. Weather Bureau. Cloud
Reclamation projects	Southern Hemisphere Map	Physics Project
Rocket research	Analysis Project	Water supply survey
Sferics research	Statistical studies	Wind power projects

SOCIETIES, ORGANIZATIONS, INSTITUTIONS AND CONFERENCES, 551.5:06

Aerological conferences	International Civil Aviation Organization	Science congresses
American Meteorological Society	International Scientific Radio Union	Sferics conferences
Arctic Institute of North America	Ionospheric physics conferences	Sferics symposia
Atmospheric pollution conferences	Johns Hopkins University Meteorological institutions	Snow, Ice and Permafrost Research Establishment (SIPRE)
Bioclimatological institutions	Meteorological libraries	Sonnblick Society
British Rainfall Organization	National Air Pollution Symposium	Symposia
Conferences	National Science Foundation Oceanographic institutes	UNESCO. Advisory Committee on Arid Zone Research
Eastern Airlines, Inc.	Operations Research	U. S. Air Force. Cambridge Research Center. Geophysics Research Division
Fog Investigation Dispersal Operation (FIDO)	Ozone conferences	Washington University. Dept. of Meteorology and Climatology
Fordham University, New York	Pacific Science Association	World Meteorological Organization
Geographical societies	Pacific Science Congress	WMO. Commission on Aerology
German Meteorological Society	Palatine Meteorological Society	WMO. Secretariat
Hydrographic conferences	Polish Meteorological and Hydrological Society	
Hydrologic institutes	Radio meteorology conferences	
Imperial College of Science and Technology, London	Radiophysics Laboratory, Sydney, Australia	
International Auroral Conference, London, 1947		

PRACTICAL METEOROLOGY, 551.5

METEOROLOGICAL STATIONS, OBSERVATIONS AND DATA, 551.501-551.506

Services and Networks, 551.501

Agro-meteorological services	East Africa High Commission. Meteorological Dept.	History of meteorological services
Agro-meteorological stations	Evaporation networks	History of meteorological stations
Arctic weather stations	Fabra Observatory, Spain	History of observatories
Armagh Observatory, Ireland	Forecasting services	Hochobir Observatory, Austria
Astronomical observatories	France. Météorologie Nationale	Hurricane warning services
Astrophysical observatories	Frost forecasting services	Hydrologic networks
Auroral photography networks	Frost warning services	Hydrometeorological services
Australia. Commonwealth Observatory, Sydney	Fruit-Frost Service	India. Meteorological Dept.
Automatic weather stations	Geophysical observatories	Kodaikanal Observatory, India
Blue Hill Observatory	German Meteorological Service (U. S. Zone)	Ksara Observatory
Canadian weather service	Global radiation networks	Lindenberg Observatory
Central Sierra Snow Laboratory	Great Britain. Meteorological Office	Lunz Biological Station, Austria
"Commandant Charcot" cruise	Greenwich Observatory	Magnetic observatories
Communication networks	Halde Observatory, Norway	Marine forecasting services
Crohmhurst Observatory, Queensland	Hamilton Weather Office, Hamilton, Canada	Marine meteorological services
Desert research centers	High altitude observatories	Meteorological networks
Dominion Public Weather Office, Halifax		Meteorological observatories

Meteorological services
 Meteorological stations
 Mizusawa Latitude Observatory
 Mountain observatories
 Netherlands. (K) Meteorologisch Instituut
 Observatories
 Ocean weather stations
 Ozone networks
 Paris Observatory
 Philippines. Weather Bureau
 Poland. State Institute of Hydrology and Meteorology
 Polar Year stations, 1932-1933
 Potsdam Observatory

Precipitation networks
 Prussian Meteorological Institute
 Rabat, Morocco. Institut Scientifique Cherifen.
 Service de Physique du Globe et de Météorologie
 Radio observatories
 Radiometeorological networks
 Radiosonde networks
 Rain gage networks
 Rainfall networks
 Riga Observatory, Latvia
 Seismic stations
 Sodankylä Meteorological Observatory
 Snow research laboratories
 Solar radiation networks

Storm warning services
 Tashkent Observatory, Uzbekistan
 Tateno Observatory, Japan
 U. S. Air Force. Cambridge Research Center. Geophysics Research Division
 U. S. Office of Naval Research
 U. S. Weather Bureau
 U. S. Weather Bureau. Cloud Physics Project
 Vienna-Auhof Observatory
 Washington National Airport
 Weather ships

Methods of Observation, 551.501

Aerosol measurement
 Airplane observations
 Amateur observers manuals
 Atmospheric electricity measurement
 Atmospheric potential gradient measurement
 Aurora borealis observation
 Auroral photographs
 Auroral spectrum measurement
 Cloud droplet photography
 Cloud photographs
 Cloud photography
 Contrast threshold
 Cooperative observers
 Cosmic ray observation
 Dew measurement techniques
 Dew observation
 Diffuse measurement
 Double theodolite observation
 Drop size distribution measurement
 Drop size measurement
 Drop size photography
 Global radiation measurement
 Gustiness measurement
 Halo photography

Humidity measurement techniques
 Hurricane tracking
 Ice thickness measurement
 Instruction for observers
 Lightning photographs
 Lightning photography
 Marine meteorological observation
 Mechanized observations
 Night sky brightness measurement
 Observation forms
 Observation techniques
 Observers manuals
 Oceanographic observations
 Ozone layer measurement
 Ozone measurement techniques
 Parallax photography
 Photographic measurements
 Photographic recording of electrical discharges
 Precipitation measurement
 Radiation measurement
 Raindrop size distribution measurement
 Raindrop size measurement
 Sea fog measurement

Searchlight technique
 Single station photography
 Snow research
 Snow surveys
 Solar radiation measurement
 Sound velocity measurement
 Spectroscopic water vapor measurement
 Stereographic photography
 Sunspot observation
 Temperature observation
 Temperature observation
 Thunderstorm tracking
 Tornado observation
 Turbulence measurement
 Twilight sky brightness measurement
 Ultraviolet radiation measurement
 Vapor pressure measurement
 Vertical wind velocity measurement
 Visibility measurement
 Visual observation of auroras
 Wave photographs
 Whole sky photography
 Wind measurement
 Wind observation

Computation Methods and Tables, 551.501

Air mass analysis
 Air mass geometry
 Anemographs
 Auroral index figure
 Barometer reduction errors
 Bathythermographs
 Beaufort scale
 Climagrams
 Climatic charts
 Computation of correlation coefficients

Computation tables
 Computing machines
 Constants
 Conversion tables
 Correction tables
 Correlations
 Data processing
 Dew point—relative humidity tables
 Evaporation charts

Fourier analysis
 Graphical presentation
 Harmonic analysis
 Height computation
 Hydrographs
 Infrared transmission calculations
 Ionograms
 Isentropic analysis
 Isohyetal charts

Isotach analysis	Punched card analysis	Synoptic charts
Mass curve studies	Punched card computations	Temperature calculations
Methods of computation	Punched card forms	Tephigrams
Microbarographs	Radiosonde data processing	Turbographs
Mixing ratio	Rainfall data analysis	Units
Nomograms	Rainfall index	Vapor pressure calculations
Periodogram analysis	Record analysis	Virtual height calculations
Precipitation analysis	Reduction tables	Wind computation
Precipitation data analysis	Refraction correction table	Wind estimation
Pressure change charts	Snow cover charts	Wind power calculations
Psychrometric charts	Snowfall charts	Wind vector computations

Upper Air Observation and Computation, 551.501.7

Aerograms	Emanometry	Upper air computation
Aerological cross sections	Hodographs	Upper air flights
Aerological diagrams	Lapse rate effects on sferics	Upper air observation
Airplane soundings	Meridional cross sections	Upper air temperature measurement
Airplane weather reconnaissance	Monthly mean upper air charts	Upper air wind analysis
Altimetry	Pilot balloon ascents	Upper air wind computation
Balloon ascension rates	Radiosonde ascents	Upper air wind measurement
Balloon investigation of sferics	Radiosonde comparisons	Upper air wind observation
Balloon recovery	Soap bubble releases	WMO. Commission on Aerology
Balloon soundings	Thickness patterns	Zonal index
Cross sections	Time sections	

Radar, Radio and Sferics Computation and Observation, 551.501.8

Atmoradiograph soundings	Radiogoniometers	Sferics from mountains
Atmoradiographs	Sferics	Sferics from polar air masses
Balloon investigation of sferics	Sferics bibliographies	Sferics from precipitation
Bright band echoes	Sferics charting	Sferics from snow
Diurnal sferics variations	Sferics classification	Sferics from storm centers
History of sferics	Sferics codes	Sferics from thunderclouds
Hurricane forecasting from sferics	Sferics conferences	Sferics from thunderstorms
Lapse rate effects on sferics	Sferics counters	Sferics from tornadoes
Long wave sferics	Sferics data	Sferics from typhoon centers
Progress in sferics recording	Sferics detectors	Sferics from typhoons
Radar	Sferics direction	Sferics goniometry accuracy
Radar analysis of precipitation	Sferics direction data	Sferics hurricane detection
Radar analysis of rain	Sferics direction finders	Sferics in tropics
Radar bibliographies	Sferics direction recorders	Sferics in polar regions
Radar cloud detection	Sferics directional distribution	Sferics intensities
Radar echoes	Sferics distance frequencies	Sferics location
Radar echoes from auroras	Sferics distribution	Sferics location of fronts
Radar echoes from lightning	Sferics during monsoon	Sferics map analysis
Radar observation	Sferics energy	Sferics measurement
Radar photographs	Sferics equipment	Sferics networks
Radar precipitation echoes	Sferics frequencies	Sferics observation techniques
Radar propagation	Sferics frequency distribution	Sferics on radar
Radar rainfall measurement	Sferics from air masses	Sferics origin
Radar storm detection	Sferics from clouds	Sferics propagation
Radar weather projects	Sferics from cold fronts	Sferics properties
Radar wind measurement	Sferics from cyclones	Sferics pulse duration
Radio astronomy	Sferics from cumulonimbus clouds	Sferics range
Radio echoes	Sferics from distant sources	Sferics rate
Radio echoes from auroras	Sferics from fronts	Sferics reception during eclipses
Radio observation	Sferics from hurricanes	Sferics recorder calibration
Radio wind measurement	Sferics from ionosphere	Sferics recorders
	Sferics from local sources	Sferics recording methods

Sferics records
 Sferics reflections from ionosphere
 Sferics reporting
 Sferics research
 Sferics research in Arctic
 Sferics scales
 Sferics soundings of atmosphere
 Sferics sounding of ionosphere
 Sferics source distribution
 Sferics source location
 Sferics sources

Sferics storm detection
 Sferics structure
 Sferics symposia
 Sferics terminology
 Sferics theory
 Sferics thunderstorm detection
 Sferics thunderstorm location
 Sferics tornado detection
 Sferics types
 Sferics variations
 Sferics wave form photography
 Sferics wave form recorders
 Sferics wave forms

Short wave sferics
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 Sunshine data
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Air-borne instruments	Low level balloon soundings	Rocket development
Air-borne thermometers	Martin Viking rockets	Rocket instrumentation
Airplane weather reconnaissance	Mechanized observations	Rocket research
Balloon dispersal	Ocean weather stations	Rocket soundings
Balloon investigation of spherics	Orbit rockets	Rockets
Balloon research	Parachute recovery	Sailplanes
Balloon soundings	Parachutes	Skyhook balloons
Balloons	Pilot balloon observations	Sounding balloons
Captive balloons	Pilot balloons	Theodolite observations
Constant level balloons	Plastic balloons	Thunderstorm flights
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Instrument classification	Meters	Recording instruments
Instrument comparisons	Microclimatological instrumentation	Remote recording equipment
Instrument exposure		
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Radiation and Temperature Instruments, 551.508.2

Actinometers	Pyrgeometers	Sunshine recorders
Actinometry	Pyrheliometer corrections	Telethermoscopes
Air-borne thermometers	Pyrheliometers	Temperature instruments
Bathythermograms	Radiation filters	Temperature sounding apparatus
Bismuth thermocouples	Radiation instruments	Thermistor psychrographs
Bolometers	Radiation meters	Thermistors
Dielectric bolometers	Radiation thermometers	Thermocouples
Dosimeters	Radiometers	Thermometer lag
History of actinometry	Radiosondes	Thermometer screens
Infrared radiation instruments	Resistance thermometers	Thermometers
Infrared spectrometers	Robitzsch actinograph	Ultraviolet dosimeters
Infrared spectroscopy	Sanborn rod thermistors	Ultraviolet dosimetry
Photoelectric receivers	Sky radiometers	
Pollak ultraviolet dosimeter	Soil thermometers	

Pressure Instruments, 551.508.4

Altimetry	Barographs	Barometry
Aneroid barometers	Barometers	Manometers

Wind Instruments, 551.508.5

Anemographs	Pressure anemometers	Wild wind vane
Anemometers	Remote recording instruments	Wind generators
Gustiness meters	Shear stress meters	Wind instruments
Hot wire anemometers	Vectorially integrating	Wind recorders
Ionization anemometers	anemometers	Wind vanes

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Air-borne flow meters	Flight cameras	Popov's soil evaporimeter
Aspiration psychrometers	Fog detectors	Psychrometers
Ceiling projectors	Fog meters	Radiosondes
Cloud droplet photography	Frost point hygrometers	Rain gage comparisons
Cloud height indicators	Hail hygrometers	Rain gage exposure
Cloud meters	Hellmann rain gage	Rain gage networks
Dew point hygrometers	Hydrographs	Rain gage shields
Disdrometers	Hygrometer calibration	Rain gages
Drop size distribution instruments	Hygrometers	Raindrop size meters
Drosometers	Icing instruments	Rime collectors
Electric hygrometers	Jena interference filter	Snow laboratory equipment
Evaporation instruments	Lysimeters	Soil moisture instruments
Evaporimeters	Lysimetry	Thermistor psychrographs
Evapotranspirometers	Piché evaporimeter	Vapor pressure recorders

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Canadian radiosondes	Radarsondes	Radiosonde recorders
Dropsondes	Radio equipment	Radiosondes
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Lang radiosonde	Radiosonde balloon inflation	Väisälä radiosonde
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Aerosol counters	Frost instruments	Polarimeters
Air-borne instruments	Goniophotometers	Radio instruments
Air-borne magnetometers	Hydrogen ion meters	Radioactive measuring devices
Air sampling instruments	Illumination meters	Radiogoniometers
Atmoradiographs	Infrared radiation instruments	Recording photometers
Atmospheric electricity instruments	Ion counters	River gages
Atmospheric pollution instruments	Ionization measurement equipment	Sferics counters
Atmospheric refractometers	Ionospheric recorders	Sferics detectors
Auroral instruments	Ionospheric sondes	Sferics direction recorders
Auroral recorders	Katathermometers	Sferics instruments
Branly coherers	Lightning counters	Sferics recorder calibration
Ceraunometers	Long wave recorders	Sferics recorders
Current meters	Nuclei counters	Sferics wave form recorders
Dust meters	Ozone meters	Sky brightness instruments
Electrometers	Photoelectric meters	Slide rules
Electronic computers	Photoelectric photometers	Spectrographs
Electrophotometry	Photographic sferics recorders	Swiss sferics recorders
	Photometers	Thunderstorm recorders

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Advection dynamic analysis	Kinematic analysis	Singularities
AROWA Project	Kobe weather maps	Southern Hemisphere Map
Atmospheric circulation anomalies	Meteorological codes	Analysis Project
Climatic analogs	Meteorological networks	Symmetry points
Communication networks	Monthly mean upper air charts	Synoptic aerological studies
Control-line method	Normal weather charts	Synoptic aerology
Daily weather maps	Northern Hemisphere Historical Maps	Synoptic analysis
Data processing	Periodogram analysis	Synoptic chart accuracy
Differential kinematics	Precipitation anomalies	Synoptic charts
Divergence analysis	Probability theory	Synoptic climatology
Forecast verification	Prognostic charts	Synoptic codes
Forecasting services	Radar storm detection	Synoptic conditions for frost
Forecasting techniques	Radio communication	Synoptic forecasting
Freeze data analysis	Radiosonde data processing	Synoptic meteorology
Frontal analysis	Relative topography	Synoptic reports
Frontal analysis variations	Sferics charting	Synoptic series
Global synoptic maps	Sferics code messages	Synoptic studies
Historical weather maps	Sferics codes	Upper air analysis
Isallobaric analysis	Sferics map analysis	Weather map classification
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Forecasting in General, 551.509

Ångström's formula	Hurricane warning services	Short range forecasting
Amateur forecasting	Hygrometric frost formulas	Single station forecasting
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Auroral magnetic periodicities	Lang's formula	Smith's frost formula
Auroral periodicities	Local forecast studies	Statistical forecasting
Brunt's formula	Local forecasting	Storm warnings
Code manuals	Long range forecasting	Synoptic forecasting
Correlations	Mathematical forecasting	Synoptic meteorology
Daily weather maps	Meteorological elements	Synoptic patterns
Defant's formula	Mikhalevskii's formula	Television weather broadcasts
Donnel's hygrometric formula	Minimum temperature formulas	Temperature cycles
Extended forecasting	Numerical forecasting	Tropical weather forecasting
Forecast accuracy	Objective forecasting	Weather
Forecast dissemination	Periodicities	Weather cycles
Forecast verification	Persistence	Weather effects
Frost forecasting formulas	Precipitation cycles	Weather forecasting
Frost forecasting rules	Precipitation estimation	Weather forecasting from sferics
Frost forecasting services	Precipitation periodicities	Weather lore
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Fruit-Frost Service	Seasonal forecasting	
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Chinook forecasting	Fire weather forecasting	Hurricane forecasting from sferics
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Cloud forecasting	Fog forecasting	Ice forecasting
Condensation trail forecasting	Forecasting cold lows	Jet stream forecasting
Crop yield forecasting	Forecasting of atmospherics	

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 Marine forecasting
 Minimum temperature forecasting
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 Ocean wave forecasting
 Oceanographic forecasting
 Potato blight forecasting
 Precipitation forecasting
 Radiation fog forecasting
 Radio transmission forecasting
 Rainfall forecasting

Relative humidity forecasting
 River forecasting
 Runoff forecasting
 Snow forecasting
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 Specialized forecasts
 Squall line forecasting
 Temperature forecasting
 Temperature forecasting from sferics
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 Trajectory forecasting
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 Artificial cloud modification
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Cloud seeding techniques
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 Orchard heating

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 Atmospheric pollution conferences
 Atmospheric pollution control
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 Dispersion of particles
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 National Air Pollution Symposium
 Nitrogen compounds
 Nitrous oxide
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Ozone data
 Ozone measurements
 Physics of the atmosphere
 Radioactive dust
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 Searchlight technique
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 Silver iodide properties
 Small particles
 Smog
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Space observations	Upper air observation	Upper air wind measurement
Upper air analysis	Upper air pressure	Upper air wind measurements
Upper air circulation	Upper air soundings	Upper air winds
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Tropopause	Tropopause-wind relationships	Tropospheric refraction
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Ozone	Ozonosphere heating	Tropopause formation
Ozone absorption	Stratosphere	Tropopause height
Ozone data	Stratospheric circulation	Tropopause height variations
Ozone distribution	Stratospheric clouds	Tropopause wind maximum
Ozone layer	Stratospheric density	Tropopause-wind relationships
Ozone layer measurement	Stratospheric research	Upper stratosphere
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F layer scattering	Ionospheric radio wave reflection	Ozone layer
F layers	Ionospheric recorders	Ozone layer measurement
F2 layer	Ionospheric reflection	Ozone meters
F2 layer formation	Ionospheric reflection coefficients	Ozone molecule structure
Infrared spectrum of ozone	Ionospheric research	Ozone networks
Ionization	Ionospheric scattering	Ozone research
Ionograms	Ionospheric sondes	Ozone variations
Ionosphere	Ionospheric storms	Ozonosphere heating
Ionosphere formation	Ionospheric tides	Reflecting layer height determination
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Advection theory	Energy dispersion	Resonance theory
Air trajectories	Energy exchange	Reynolds numbers
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Angular momentum balance	Enthalpy	Richardson's number
Angular momentum flux	Equivalent barotropic theory	Rossby hydrodynamic equation
Atmospheric models	Equivalent potential temperatures	Rossby vorticity equation
Atmospheric turbulence	Exchange coefficient	Roughness parameters
Austausch	Fick's equation	Schmidt's paradox
Austausch equation	Frictional effects	Slice method
Austausch theory	Geostrophic winds	Solenoids
Barotropic models	Gradient winds	Specific heat of air
Barotropic tendency equation	Gravity waves	Stability
Barotropic theory	Heat and moisture balance	Statistical theory of turbulence
Bernoulli-Bjerknes equation	Heat balance	Tephigrams
Bubble theory	Heat diffusion	Thermal instability
Cell motion	Heat exchange	Thermodynamics of the atmosphere
Change of state	Heat transfer	Turbulence correlation functions
Confluence	Heat transport	Turbulence spectrum
Convection	Horizontal motion	Turbulent exchange
Convection theory	Instability	Turbulent mixing
Convective cells	Isentropic analysis	Turbulent transfer of heat
Convective currents	Jet stream	Turbulent transfer of vorticity
Convergence	Kinematics of wind fields	Vertical exchange variations
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Differential kinematics	Leipzig profile	Viscosity
Diffluence	Mechanics of the atmosphere	Vorticity
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Divergence	Momentum transfer	Vorticity equations
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Angular momentum flux	Double jet stream	Gradient winds
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Blocking action	Equations of motion	Isentropic analysis
Blocking waves	Frontal circulation	Jet stream
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Correlations	General circulation theory	Jet stream bibliographies
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et stream dynamics	Lee eddies	Steering
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et stream forecasting	Meridional cross sections	Synoptic patterns
et stream height	Meridional exchange	Tropopause-wind relationships
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et stream models	Meridional index	Upper air circulation
et stream profiles	Monsoonal westerlies	Upper equatorial westerlies
et stream propagation	Monsoons	Vertical motion
et stream speed	Ocean-atmosphere interaction	Waves in the westerlies
et stream structure	Ocean-atmosphere stress	Waves in the westerlies fore- casting
et stream theory	Planetary circulation	Westerly trough
et stream turbulence	Polar orbit	Wind shear
et stream variations	Polar vortexes	Zonal circulation
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Barometric depressions	Cyclonic motions	Steering
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Cyclogenesis	Extratropical cyclone fre- quencies	Storm tides
Cyclone development	Extratropical cyclones	Storm warning services
Cyclone dynamics	Forecasting cold lows	Storms
Cyclone forecasting	Frontal waves	Storms at sea
Cyclone frequencies	Historic storms	Structure of disturbances
Cyclone models	Kinematics of wind fields	Upper equatorial westerlies
Cyclone movement	Mountain storms	Upper level cyclones
Cyclone movement forecasting	Pressure correlations	Upper level cyclogenesis
Cyclone structure	Pressure fields	Waves in the westerlies
Cyclone theories	Seismic storm detection	Waves in the westerlies forecasting
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Cyclonic storms	Sferics from typhoon centers	Typhoon "Jane" (1952)
Eye of typhoon	Sferics from typhoons	Typhoon "Kezia" (1950)
Hurricane Able (1952)	Sferics hurricane detection	Typhoon "Kitty" (1949)
Hurricane damage	Storm warnings	Typhoon "Marge" (1951)
Hurricane dynamics	Subtropical cyclones	Typhoon mechanics
Hurricane forecasting	Tropical cyclone bibliog- raphies	Typhoon movement
Hurricane forecasting from sferics	Tropical cyclones	Typhoon observation
Hurricane formation	Tropical storms	Typhoon "Olive" (1952)
Hurricane frequencies	Typhoon clouds	Typhoon pressure
Hurricane structure	Typhoon damage	Typhoon "Ruth" (1951)
Hurricane theory	Typhoon data'	Typhoon statistics
Hurricane tracking	Typhoon "Della" (1949)	Typhoon structure
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Hurricane warning services	Typhoon "Doris" (1950)	Typhoon tracks
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CUMULATIVE GEOGRAPHIC INDEX

In this index of geographical places there are three major sections:

- A. Hemispheres and Regions
- B. Continents
- C. Oceans, Seas and Islands

An alphabetical or dictionary type of arrangement is followed for all divisions and subdivisions of these major groups. For example, in section B, the continents are arranged alphabetically as follows:

- | | |
|---|------------------|
| 1. Africa | 4. Europe |
| 2. Asia | 5. North America |
| 3. Australasia (Australia, New Zealand and East Indies) | 6. South America |

Within each continent the regions or main topographical features are listed alphabetically, followed by the countries in alphabetical order. No attempt has been made to distinguish between political and geographical regions or sub-regions.

Within each country all regions, states, provinces, cities or other geographical features falling entirely within that country form a single alphabetical list. Cities in the United States are alphabetized under their respective states.

In section C the principal oceans and seas and their respective divisions have been arranged alphabetically. Islands not naturally associated with one or another of the continents have been assigned to the body of water in which they are located.

Australasia includes Australia, Indonesia and New Zealand; Japan and the Philippines are under Asia, and Greenland under North America.

The Antarctic includes the Antarctic continent and bordering seas. It has been arbitrarily assigned to section C on Oceans, Seas and Islands to preserve its analogy to the Arctic.

All references to the whole of the U.S.S.R. (Russia) will be found in the section under Europe. Places definitely in Asiatic U.S.S.R. (Siberia, Kazakhstan, etc.) will be listed under the appropriate country or area under Asia. Some of the latter may also be listed under U.S.S.R. in the European section.

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In this list the preferred form of title entry is given in bold face type. If the title is distinctive, the name and headquarters of the issuing society or organizations follows the title. If the title is not distinctive (for instance, Bulletin, Journal, Trudy, Mitteilungen), the entry consists of the issuing body followed by the title.

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- *Weather, Royal Meteorological Society, [London].
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